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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant Wang, Art Unit: 3729
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Series No 10/734,912 Examiner: Afzali, Sarang
Supervisory David P. Bryant
Patent
Examiner

Filed 12/09/2003
Title Method of manufacturing a waterproof zipper

Mail Stop Non-Fee Amendment

Honorable Assistant Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Responsive to the Official Action date 08/ 16/ 2006, please amend

the above-referenced Patent Application as following:

Claims 20-26 have been cancelled as the applicant replied to the Office action dated 01/23/2006 on 03/29/06.

According to the advisory action issued by the supervisory patent examiner dated 08/16/06, kindly instructed that claims 9, 10,12-15 should be amended to overcome the rejections and lack of antecedent basis.

Therefore, the applicant decides to cancel the claims 10, 12-15, but the features of claim 10,12,14,15 are incorporated to the claim 9 to form a new independent claim 9, but the feature of claim 13 is substitute for the feature of claim 12 added to the amended claim 9 to form a new independent claim 27.

Therefore, only an independent claim 9, and a new independent claim 27 remains in the present invention.

According to the new independent claims 9 and 27, the present invention is restricted to more steps than the cited documents, not only a step (d1) printing pattern or (d1) forming texture is added between the steps (d) and (e) then output the nylon zipper by a guide device, feeding the nylon zipper to a feeding device but also after heating step to form a waterproof layer, extruding the PU film, PU gel and fastener strips, and compressing the PU film, PU gel and fastener strips at two sides to firmly combine the PU film, PU gel and fastener strips.

Since the claims 9, 10, 12, 14-15, or claims 9,10,13-15, now are combined to form an amended claim 9 and a new claim 27, the antecedent basis can be known from the first embodiment of the present invention, step (a) is described as the feeding stage (21)

(please see page 7, line 2 of the original specification of the present invention, hereinafter, for example, page 7 line 2), step (b) is described as the gluing step (22) (page 7 line 7), step (c) is described as the pressing step (23) (page 7, line 22), step (d) is described as the drying step (24) (page 8, line 2), completed steps (a), (b), (c) and (d) is described as the first stage, which can be repeated 1~3 times. (page 8 line 11)

In the fourth embodiment of the present invention, step (d1) printing pattern or step (d1) forming texture is described as ‘a printing step (221) or a press step (222) is added between the gluing step (22) and the adhesion step (23)’(page 11, lines 27-29). The original claims 12, 13 dependent on the original claim 9, they claimed that after drying step (24), step (d1) is restricted between the steps (d) and (e) based on ‘the inner surface of the PU film (51) is printed with beautiful pattern (512) by screen printing, or the convex or concave textures are printed on the inner surface of the PU film (51) to form textures (513). The pattern (512) or texture (513) will not disappear out due to friction or scraping. Since the waterproof layer is transparent, the pattern or texture is clear and it can be identified easily’ (page 11 line 29~page 12 line 10) is initially processed through in step (d1), and this step (d1) could not be repeated 1~3 times as being included in the first stage. Otherwise the printing pattern or forming texture should be out of shape.

Since the step (d1) in the original claims 12, 13, is restricted between the steps (d) and (e); therefore, the step (d1) described in the fourth embodiment can be added between the first stage and the second stage of the first embodiment. And then the feature of the original claim 14 ‘output the nylon zipper by a guide device, feeding

a nylon zipper to a feeding device' incorporated into claim 9 or formed a new independent claim 27 is described in the first embodiment of the present invention as the guiding step (25) (page 8 line 6) and followed by the feeding step (26) (page 8 line 20) as described in the second stage of the first embodiment of the present invention.

Step (e) is described as the adhering step (27) (page 8 line 24) of the first embodiment of the present invention; step (f) is described as the heating step (28) (page 9 line 17), the feature of claim 10 'extruding the PU film, PU gel, and fastener strips so as to firmly combine the PU film, PU gel and fastener strips; compressing the PU film, PU gel, and fastener strips so as to firmly combine the PU film, PU gel and fastener strips;' is described in the first embodiment of the present invention, in addition to the heating step (28), 'a rear end of the heating box (52) may be installed with an extruding device formed by an upper press roller (54) and a lower press roller (55). The rollers press the zipper (10) so that the backsides of the fastener strips (11,12) are formed with waterproof layers (17,18).' (page 9 lines 22-26)

Step (g) is described as the cutting stage (29) (page 9 line 29) of the first embodiment of the present invention. And step (h) is described as guide step (30) 'a guide device formed by a set of upper and lower rollers (56) and (57) is used in the guide step (30). (page 10 lines 7-8)

The steps described in the new claim 27 and claim 9 is depicted in Fig. 11 of the present invention as a block diagram of the present invention.